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**From:** Zahradnik, Art [Art.Zahradnik@arcadis.com]  
**Sent:** 12/14/2016 3:33:58 PM  
**To:** Harrington, Jim (DEC) [jim.harrington@dec.ny.gov]; steven.scharf@dec.ny.gov; henry.wilkie@dec.ny.gov  
**CC:** Edward Hannon (Edward.hannon@ngc.com) [Edward.Hannon@ngc.com]; fred.weber@ngc.com; Wolfert, Mike [Mike.Wolfert@arcadis.com]; San Giovanni, Carlo [Carlo.SanGiovanni@arcadis.com]; Stern, David [David.Stern@arcadis.com]; Garbarini, Doug [Garbarini.Doug@epa.gov]  
**Subject:** Update on Monitoring Well GM-21D2 Assessment and Monitoring Frequency  
**Attachments:** All Wells\_TVOC vs Time\_111016.pdf; OU2 Wells 17\_18\_19 Mass Removal 2014 toOct2016\_r1.pdf

Jim/Steve/Henry,

Since our last update on June 24, 2016, Monitoring Well GM-21D2 is currently sampled biweekly and Monitoring Wells GM-73D2 and GM-74D2 and Remedial Wells 17,18 and 19 are currently sampled monthly. Most recent analytical data and data from the previous sampling rounds (January to October 2016) indicate the following:

- TVOCs in GM-21D2 have significantly decreased over time (as we discussed at the last EPA Coordination meeting in May) concurrent with the increased pumping rate of Well 18; since June 2016, the rate of decline of TVOCs is less but still decreasing with TVOCs below 50 ug/L for September and October.
- TVOCs in all other monitoring wells and remedial wells have remained fairly stable, exhibiting less variability compared to GM-21D2.
- VOC mass recovery rates for Well 18 are not significantly higher than those prior to the increased pumping rate of Well 18 and continue to be less than the VOC mass recovery rates for Wells 17 and 19.

We therefore suggest the following changes in monitoring frequency:

- Based on concentrations trends in the remedial wells and nearby monitoring wells (73D2 and 74D2), we plan to change the sampling frequency for these wells back to the original frequency outlined in the Groundwater Monitoring Plan (June 2016) as follows:
  - Quarterly for Remedial Wells 17, 18, and 19
  - Semiannually for Monitoring Wells GM-73D2 and GM-74D2.
- Based on the declining trends in TVOCs in GM-21D2, we will plan to change the sampling frequency from biweekly to monthly to continue monitoring trends in this well.

Please let us know your thoughts or if you would like to discuss further.

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